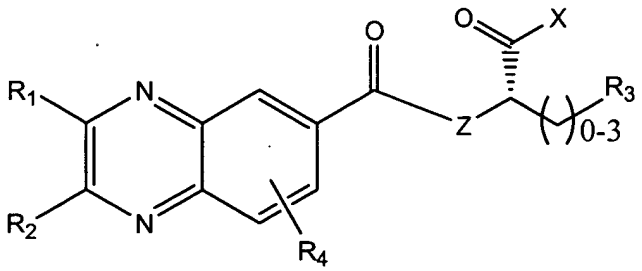
CLAIMS

1. A compound according to Formula 1



Formula 1

wherein

Z is NH or O;

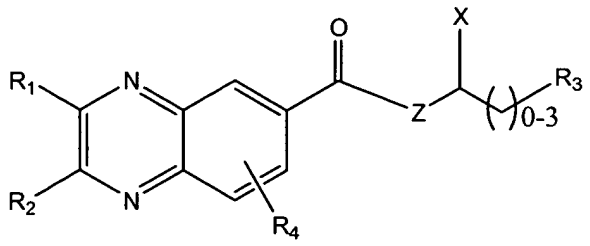
X is selected from OH, NH_2, OR, NHR, NRR, SH, or SR;

R_1 and R_2 are independently selected from H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle, and R_1 and R_2 together with the carbon atoms to which they are attached may form a 5- or 6-membered ring;

R_3 is substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle; and

wherein R and R_4 are independently H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

2. A compound according to Formula 2



Formula 2

wherein Z is NH or O;

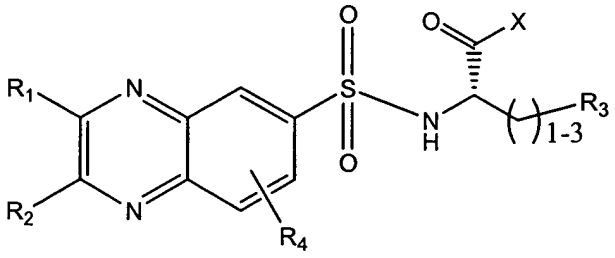
X is $CONH_2$, COOR, CONHR, CONRR, heterocycle, R, SO_3H, $P(O_3H)$, $CH(COOH)_2$, $CH(PO_3H)_2$, tetrazole, or triazole;

R_1 and R_2 are independently selected from H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle, and R_1 and R_2 together with the carbon atoms to which they are attached may form a 5- or 6-membered ring;

R_3 is substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle; and

wherein R and R_4 are independently H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

3. A compound according to Formula 3,



Formula 3

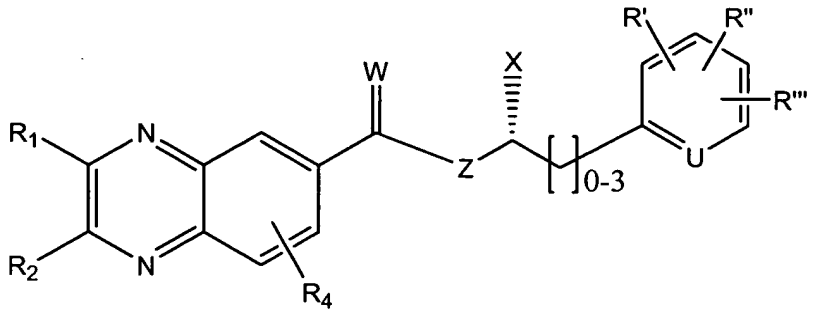
wherein X is NH_2, OR, NHR, NRR, heterocycle, or R;

R_1 and R_2 are independently selected from H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle, and R_1 and R_2 together with the carbon atoms to which they are attached may form a 5- or 6-membered ring;

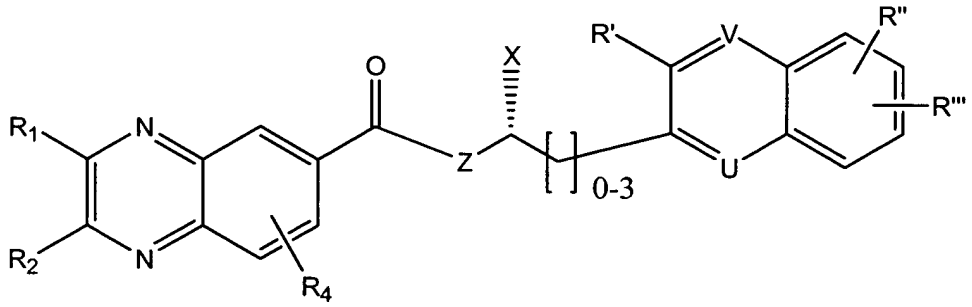
R_3 is substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle; and

wherein R and R_4 are independently H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

4. A compound according to Formula 4 or Formula 5



Formula 4



Formula 5

wherein U is selected from CH, CR, COR, CSR, CNHR, CNRR, $CNHCH_2COOH$, $CNHCH_2COOR$, $CNHCH_2CONH_2$, and N;

V is N, CH, or CR;

Z is NH or O;

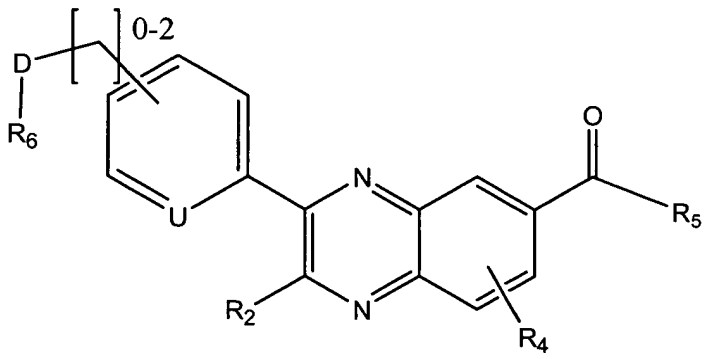
X is COOH, COOR, $CONH_2$, CONHR, CONRR, or heterocycle;

R_1 and R_2 are independently selected from H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle and fused heterocycle, and R_1 and R_2 together with the carbon atoms to which they are attached may form a 5- or 6-membered ring;

R', R", R'" are independently H, OH, OR, SH, SR, NH_2, NHR, NRR, NO_2, Cl, F, Br, I, CN, N_3, COR, COOH, COOR, $CONH_2$, CONHR, CONRR, C(=NH)NHR, CH_2CH_2COOH, OCH_2COOH, $NHCONH_2$, NHCHO, $NHSO_2R$, NHCOR, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle; and

wherein R and R_4 are independently H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

5. A compound according to Formula 6



Formula 6

wherein U is selected from CH, CR, COR, CSR, CNHR, CNRR, $CNHCH_2COOH$, $CNHCH_2COOR$, $CNHCH_2CONH_2$, or N;

D is O, S, NH, NR, or CRR;

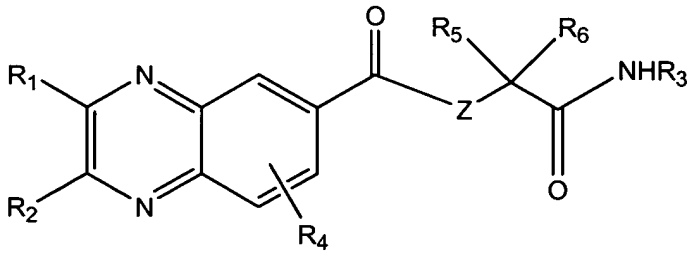
R_5 is H, OH, SH, OR, SR, NH_2, NHR, NRR, O-aryl, or NH-aryl;

R_2 is H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle;

R_6 is H, CH_2CH_2COOH, CH_2COOH, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle; and

wherein R and R_4 are independently H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

6. A compound according to Formula 7



Formula 7

wherein Z is NH or O;

R_1 and R_2 are independently selected from H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle;

R_3 is substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle, fused heterocycle, wherein R may further optionally include a COOH group that is covalently coupled to R via zero to three atoms;

R_5 and R_6 are either H, alkyl, or together are connected via an additional 1-4 atoms to form a substituted or unsubstituted cyclic group containing 3-6 atoms; and

wherein R and R_4 are H, substituted or unsubstituted alkyl, alkenyl, alkynyl, aryl, fused aryl, heterocycle or fused heterocycle.

7. A pharmaceutical composition comprising a compound according to any one of claims 1-6, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

8. A method of treating a viral disease, comprising administering a composition according to claim 7 to a subject in need of such treatment.